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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/528,005	06/09/2006	Pierre Jean Messier	102785-337-NP	9022
24964 7590 06092008 GOODWIN PROCTER LL.P ATTN: PATENT ADMINISTRATOR			EXAMINER	
			STEELE, JENNIFER A	
620 Eighth Avenue NEW YORK, NY 10018			ART UNIT	PAPER NUMBER
			1794	
				-
			MAIL DATE	DELIVERY MODE
			06/03/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/528,005 MESSIER, PIERRE JEAN Office Action Summary Examiner Art Unit JENNIFER STEELE 1794 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 17 April 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-6 and 25-40 is/are pending in the application. 4a) Of the above claim(s) 33-40 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-6 and 25-32 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 4/17/2008.

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

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DETAILED ACTION

Election/Restrictions

Claim 33-40 withdrawn from further consideration pursuant to 37 CFR 1.142(b)
as being drawn to a nonelected method of making a product, there being no allowable
generic or linking claim. Election was made without traverse in the reply filed on
4/17/2008.

Claim Rejections - 35 USC § 112

- 2. Claim 4 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 4 recites the limitation that the porous dielectric carrier is a "sponge like material having an open cell matrix". It is not clear from the claims or the specification what a sponge like material structure is. Materials with open cell can include foams and knits and honeycomb structures or fabric meshes or a lofty nonwoven batt with a porous structure.
- 3. Claim 5 and 31 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 5 and 31 recite the limitation that the "nonwoven material is a <u>three dimensional structure</u> configured to provide a matrix capable of entrapping said active agent". It is not clear from the claims or the specification how the nonwoven material is a <u>three dimensional structure</u> or if the nonwoven material is folded, pleated or by some other method created to be three dimensional. Further, it is not clear if it is the three dimensional structure that allows for

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the active agent to be entrapped or it is the matrix that entraps the active agent or the combination of the three dimensional structure and the matrix.

4. Claim 6 and 32 rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 6 and 32 recite the limitation that the "active agent consists of particles of a size suitable for entrapment by said matrix."

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be neadtived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 5. Claim 1-6, 25-32 rejected under 35 U.S.C. 103(a) as being unpatentable over Messier (US 6,224,655) in view of Pike et al (US 5,873,968). Messier teaches a biostatic air filter that is a microbiocidal air filter element comprised of an air permeable nonwoven fibrous carrier to which the iodinated strong base anion exchange resin is held within. Messier teaches the anion exchange resin can be in the form of particles

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dispersed in the fibrous matrix of the filter element. Messier differs from the current application and does not teach that the filter is a dielectric carrier and has an electrostatic charge.

Pike teaches a laminate filter medium having an electret lofty spunbond web and an electret microfiber web. Pike teaches filter media is porous and teaches large interfiber pores have high permeability and fine interpore structures of meltblown webs tend that are better at trapping fine particles tend to have lower permeability (col. 1, lines 11-38). Pike teaches a fibrous nonwoven web comprising the lofty layer and the microfiber layer are electretized by methods such as thermal, plasma-contact, electron beam and corona discharge. The dielectric carrier is equated with the electrically charged and electret treated web of Pike.

Pike presents a finding that one of ordinary skill in the art could have substituted the electrostatically charge filter in the biostatic filter of Messier and the results of the combination would have been predictable.

Regarding claim 2, 3, 28 and 29, Messier does not teach a dielectric carrier. Pike teaches the electrically charged web is a nonwoven and Pike teaches the nonwoven web is a fibrous structure. A fibrous nonwoven web structure would be a fibrous matrix structure.

With respect to claim 4 and 30, Messier teaches the biostatic filter can be comprised of an intermediate filter with iodinated resin either as a membrane or incorporated as particulate in the carrier matrix structure. Messier teaches that the layers of filter can be spaced apart and in a zig-zag folded where the organisms

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become entrapped between the intermediate air filter and the upstream and downstream filter elements. As a nonwoven batt is sponge like and there are spaces between the filter components there would be an open cell matrix structure present.

Regarding claim 5 and 31, Messier teaches a zig-zag structure which would be three-dimensional. Messier teaches the iodinated resin can be in particulate form and can be between layers or coated particulates on membranes.

As to claim 6 and 32, Messier teaches the iodinated resin particles are dispersed in the carrier matrix of the air filter element (col. 2, lines 20-21).

With regards to claim 25, Messier teaches layers of air filter materials. Pike teaches two layers of nonwoven materials and Pike teaches both layers are electretized. Pike presents a finding that one of ordinary skill in the art could have substituted the electrostatically charge filter with two layers in the biostatic filter with multiple layer of Messier and the results of the combination would have been predictable.

Regarding claim 26, Messier teaches an iodinated exchange resin can be present on a first and second membrane.

As to claim 27 and 28, Messier teaches an air gap separates the filter elements of the intermediate filter and the iodinated resin membranes. Pike teaches nonwoven webs that can be made electret. It would have been obvious to substitute the nonwoven fibrous filters of Messier with nonwoven webs of Pike that are dielectric carriers motivated to improve the filtration efficiency.

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to JENNIFER STEELE whose telephone number is (571)272-7115. The examiner can normally be reached on Office Hours Mon-Fri 8AM-5PM

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carol Chaney can be reached on (571) 272-1284. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. S./ Examiner, Art Unit 1794 /Elizabeth M. Cole/ Primary Examiner, Art Unit 1794

5/29/2008

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